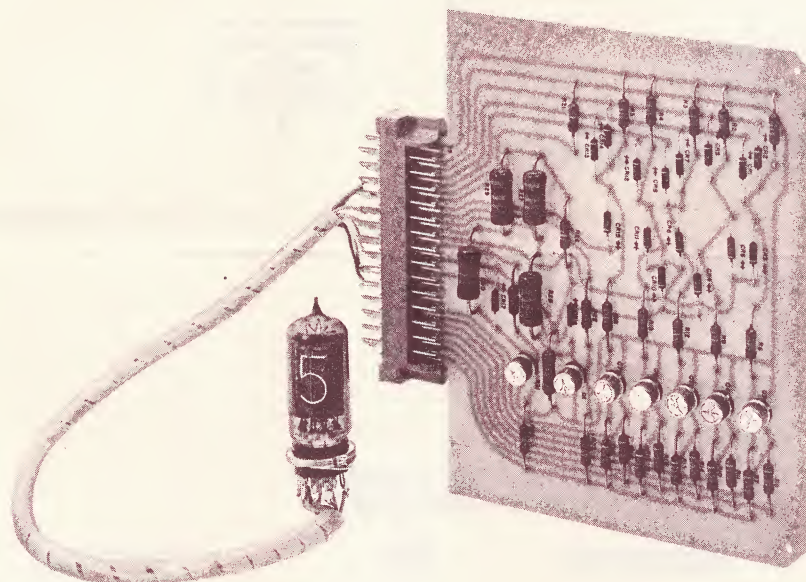




CONVERSION MATRIX AND BI-QUI DRIVER DP101



The Amperex DP101 is a solid state conversion matrix for decoding BCD codes, and a driver for Biquinary Numerical Indicator Tubes, ZM1030 and ZM1032.

FEATURES

- * Fewer Components - Greater Reliability
- * Lower Cost
- * Ease of Maintenance
- * Reduced Spare Parts Stock

An added feature of biquinary circuits is that they are error proof. Any failure will be visible because two numerals (within one tube) will simultaneously ignite.

SPECIFICATIONS

Code Required
Logic One ("1")

Logic Zero ("0")

Input Impedance

Operating Temperature

Mounting Position

Power Requirements

BCD (8-4-2-1)

+10 $\pm$ 1 volts

0 $\frac{+1}{-0}$ volts

13 K ohms

-28°C to +85°C

Any

+12.6 VDC $\pm$ 5%, 4.5 ma

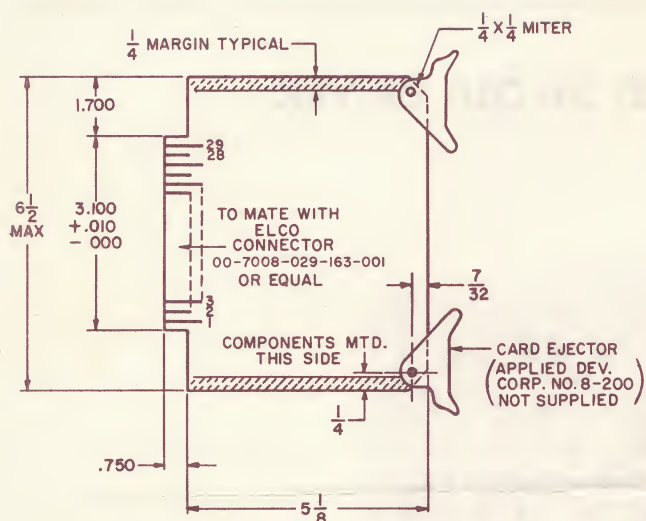
-6.3 VDC $\pm$ 5%, 1.5 ma

+100 VDC $\pm$ 5%, 3 ma

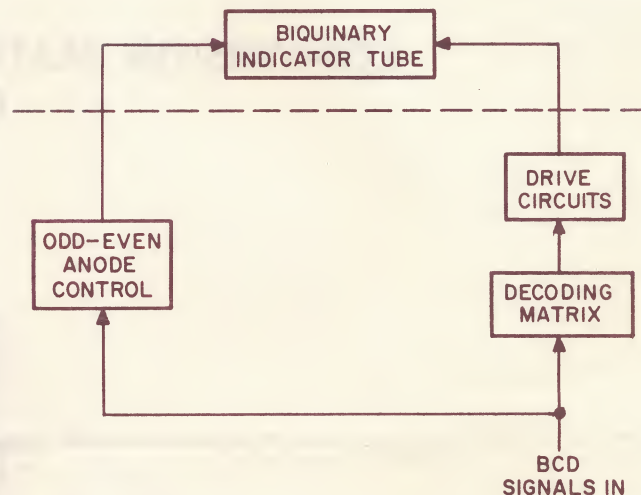
+300 VDC $\pm$ 5%, 16 ma

Meets MIL-E-16400 and MIL-STD-242 Specifications.

DIMENSIONS



SIMPLIFIED BLOCK DIAGRAM

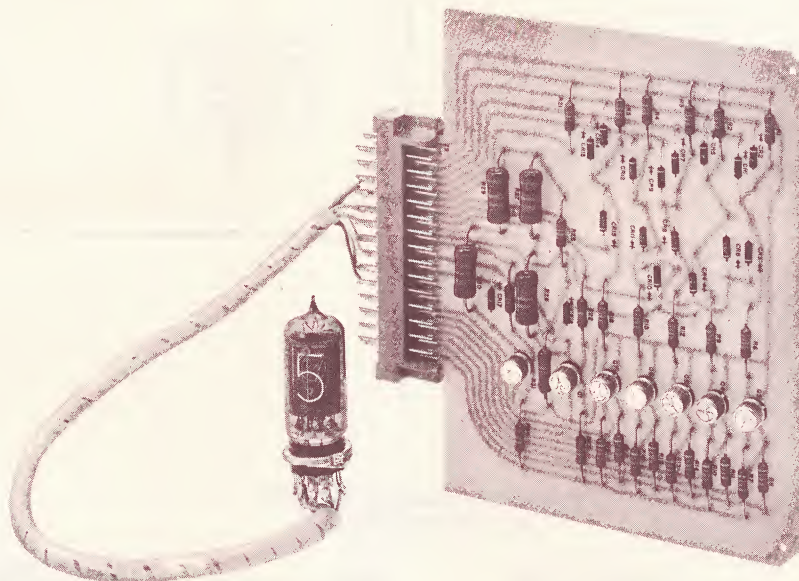


PRINTED CIRCUIT BOARD PIN CONNECTIONS

<u>PIN</u>	<u>CONNECTION</u>	<u>PIN</u>	<u>CONNECTION</u>
1	-6.3V	16	BCD - 1
2	+100V	17	BCD - $\bar{8}$
3	Tube Pin 8 (0-1)	18	Tube Pin 2 (Even Anode)
4	Tube Pin 7 (2-3)	19	Tube Pin 9 (Odd Anode)
5	Tube Pin 5 (4-5)	20	BCD - $\bar{1}$
6	Tube Pin 4 (6-7)	21	BCD - 8
7	Tube Pin 3 (8-9)	22	+300V
8	-	23	Tube Pin 6 (Screen)
9	-	24	BCD - 4
10	-	25	BCD - $\bar{2}$
11	-	26	BCD - $\bar{4}$
12	BCD - 2	27	GND
13	-	28	-
14	-	29	+12.6V
15	-		



CONVERSION MATRIX AND BI-QUI DRIVER DP101/C



The Amperex DP101/C is a solid state conversion matrix for decoding BCD codes, and a driver for Biquinary Numerical Indicator Tubes, ZM1030 and ZM1032.

FEATURES

- * Fewer Components - Greater Reliability
- * Lower Cost
- * Ease of Maintenance
- * Reduced Spare Parts Stock

An added feature of biquinary circuits is that they are error proof. Any failure will be visible because two numerals (within one tube) will simultaneously ignite.

SPECIFICATIONS

Code Required

Logic One ("1")

Logic Zero ("0")

Input Impedance

Operating Temperature

Mounting Position

Power Requirements

BCD (8-4-2-1)

+10 $\pm$ 1 volts

0 $\pm$ 1
-0 volts

13 K ohms

0°C to +60°C

Any

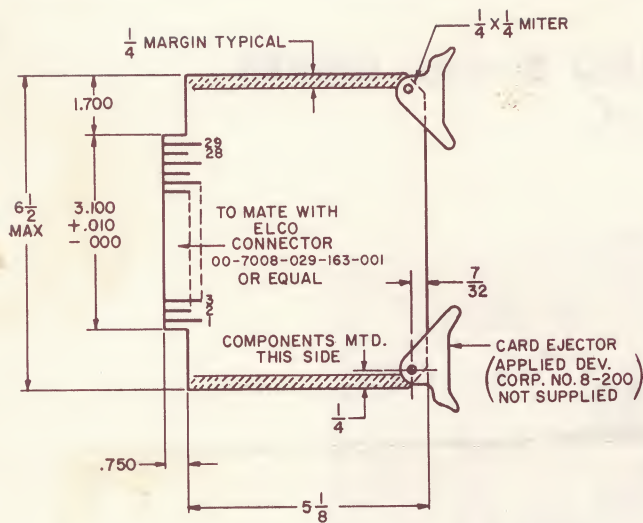
+12.6 VDC $\pm$ 5%, 4.5 ma

-6.3 VDC $\pm$ 5%, 1.5 ma

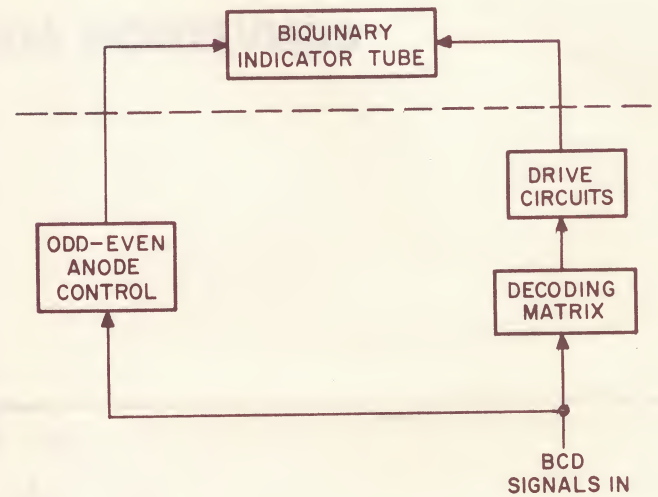
+100 VDC $\pm$ 5%, 3 ma

+300 VDC $\pm$ 5%, 16 ma

DIMENSIONS



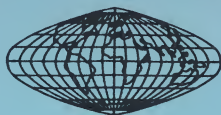
SIMPLIFIED BLOCK DIAGRAM



PRINTED CIRCUIT BOARD PIN CONNECTIONS

<u>PIN</u>	<u>CONNECTION</u>	<u>PIN</u>	<u>CONNECTION</u>
1	-6.3V	16	BCD - 1
2	+100V	17	BCD - $\bar{8}$
3	Tube Pin 8 (0-1)	18	Tube Pin 2 (Even Anode)
4	Tube Pin 7 (2-3)	19	Tube Pin 9 (Odd Anode)
5	Tube Pin 5 (4-5)	20	BCD - $\bar{1}$
6	Tube Pin 4 (6-7)	21	BCD - 8
7	Tube Pin 3 (8-9)	22	+300V
8	-	23	Tube Pin 6 (Screen)
9	-	24	BCD - 4
10	-	25	BCD - $\bar{2}$
11	-	26	BCD - $\bar{4}$
12	BCD - 2	27	GND
13	-	28	-
14	-	29	+12.6V
15	-		

Amperex



Amperex[®] Electronic Corp.

DIGITAL PRODUCTS DEPARTMENT

230 Duffy Avenue
Telephone 516/WELLS 1-6200

Hicksville, L. I., N. Y. 11802
TWX No. 516/433 9045

**CONVERSION MATRIX & BI-QUI DRIVER
DP101**

PRICE SCHEDULE

QUANTITY	PRICE (PER UNIT)
1 - 9	\$90.00
10 - 49	88.00
50 - 99	85.00
100 - 249	80.00
250 - 499	75.00
500 & UP	Contact Factory

DELIVERY 6 - 8 WEEKS

*****PRICES SUBJECT TO CHANGE WITHOUT NOTICE*****

TERMS: INVOICES DATED 1st to 15th - 1% IF PAID BY 25th OF CURRENT MONTH

INVOICES DATED 16th to 31st - 1% IF PAID BY THE 10th OF FOLLOWING MONTH OR NET 30 DAYS

F.O.B. SHIPPING POINT

**Address inquiries to AMPEREX ELECTRONIC CORPORATION
DIGITAL PRODUCTS DEPARTMENT
230 DUFFY AVENUE, HICKSVILLE, L.I., N.Y., 11802
TELEPHONE 516 WELLS 1-6200
CABLE ADDRESS AMPRONICS HICKSVILLE
TWX HICKSVILLE, N.Y., 2199**

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Telephone 516/WELLS 1-6200

Hicksville, L. I., N. Y. 11802
TWX No. 516/433 9045

**CONVERSION MATRIX & BI-QUI DRIVER
DP101/C**

PRICE SCHEDULE

QUANTITY	PRICE (PER UNIT)
1 - 9	\$65.00
10 - 49	58.00
50 - 99	52.00
100 - 249	49.00
250 - 499	46.00
500 & UP	Contact Factory

DELIVERY 6 - 8 WEEKS

*****PRICES SUBJECT TO CHANGE WITHOUT NOTICE*****

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